



```

name: <unnamed>
log: C:\Users\kamcd\Dropbox\CDK WORK\racial disparities essentialism\JOP repli
> cation files\Anoll Kam Marcellin Bovitz Analyses.smcl
log type: smcl
opened on: 10 Jan 2025, 13:39:49

1 .
2 . /*Cleaning the data*/
3 . clear

4 . cd "C:\Users\kamcd\Dropbox\CDK WORK\racial disparities essentialism\JOP replication
> files\"
C:\Users\kamcd\Dropbox\CDK WORK\racial disparities essentialism\JOP replication files

5 .
6 . use "Anoll Kam Marcellin Bovitz June 2022 Survey.dta"

7 .
8 . gen newdate = dofc(StartDate)

9 . gen double newtime = hh(StartDate)

10.
11. //Dropping test data
12. drop if newdate<22816
(2 observations deleted)

13. drop if newdate==22816 & newtime==10
(1 observation deleted)

14.
15. //Removing those who have not consented
16. drop if agree~=1
(20 observations deleted)

17.
18. //Removing those under 18
19. gen ageyears = age
(7 missing values generated)

20. destring ageyears, force replace
ageyears: contains nonnumeric characters; replaced as int
(9 missing values generated)

21. drop if ageyears<18 | ageyears>105
(15 observations deleted)

22. sum ageyears

Variable | Obs Mean Std. dev. Min Max
-----|-----
ageyears | 3,617 46.44954 15.57761 18 99

23.
24. //Keeping those who pass the attention check
25. keep if check_closeroad_4==1 & check_closeroad_5==1
(637 observations deleted)

26.

```

27. //Take the first respondent of those with duplicate IP addresses
 28. duplicates tag IPAddress, gen(dupIP)

Duplicates in terms of **IPAddress**

29. egen IPdups = group(IPAddress) if dupIP>0
 (2,863 missing values generated)

30. egen rank = rank(StartDate), track

31. bysort IPdups: egen firstrank = min(rank)

32. drop if firstrank~=rank & dupIP>0
 (61 observations deleted)

33.

34. //Sample characteristics

35. //We ordered 900 White Dems, 900 White Reps, 900 Blacks

36. //Race

37. gen White = .
 (2,919 missing values generated)

38. replace White = 1 if race_5==1
 (1,941 real changes made)

39. replace White = 0 if race_1==1 | race_2==1|race_3==1|race_4==1|race_6==1
 (1,044 real changes made)

40. tab White

White	Freq.	Percent	Cum.
0	1,044	36.17	36.17
1	1,842	63.83	100.00
Total	2,886	100.00	

41.

42. gen Black = .
 (2,919 missing values generated)

43. replace Black = 1 if race_3==1
 (968 real changes made)

44. replace Black = 0 if race_1==1 | race_2==1|race_4==1|race_5==1|race_6==1
 (1,992 real changes made)

45.

46. gen race = 0

47. replace race = 1 if White==1
 (1,842 real changes made)

48. replace race = 2 if Black==1
 (894 real changes made)

49. lab def race 0"Other" 1"White" 2"Black"

50. lab val race race

```

51.
52. //Party
53. gen REP = 0

54. replace REP = 1 if strong_rep==1|strong_rep==2|lean==1
    (996 real changes made)

55. gen DEM = 0

56. replace DEM = 1 if strong_dem==1|strong_dem==2|lean==2
    (1,632 real changes made)

57. tab1 REP DEM
    
```

-> tabulation of REP

REP	Freq.	Percent	Cum.
0	1,923	65.88	65.88
1	996	34.12	100.00
Total	2,919	100.00	

-> tabulation of DEM

DEM	Freq.	Percent	Cum.
0	1,287	44.09	44.09
1	1,632	55.91	100.00
Total	2,919	100.00	

```

58.
59. gen pid3cat = .
    (2,919 missing values generated)

60. replace pid3cat = 0 if REP==1
    (996 real changes made)

61. replace pid3cat = 1 if DEM==1
    (1,632 real changes made)

62. replace pid3cat = .5 if lean==3
    (249 real changes made)

63. tab pid3cat
    
```

pid3cat	Freq.	Percent	Cum.
0	996	34.62	34.62
.5	249	8.65	43.27
1	1,632	56.73	100.00
Total	2,877	100.00	

```

64. lab def pid3cat 0 "REP" 1 "DEM"

65. lab val pid3cat pid3cat

66. tab pid3cat race
    
```

pid3cat	race			Total
	Other	White	Black	
REP	44	883	69	996
.5	25	66	158	249
DEM	81	888	663	1,632
Total	150	1,837	890	2,877

```

67.
68. //Finalizing sample
69. keep if (White==1 & REP==1)|(White==1 & DEM==1)|(Black==1)
    (254 observations deleted)

70. gen samplegroups = .
    (2,665 missing values generated)

71. replace samplegroups = 1 if White==1 & REP==1
    (883 real changes made)

72. replace samplegroups = 2 if White==1 & DEM==1
    (888 real changes made)

73. replace samplegroups = 3 if Black==1
    (894 real changes made)

74. lab def samplegroups 1"White REP" 2"White DEM" 3"Black"

75. lab val samplegroups samplegroups

76. tab samplegroups

```

samplegroup s	Freq.	Percent	Cum.
White REP	883	33.13	33.13
White DEM	888	33.32	66.45
Black	894	33.55	100.00
Total	2,665	100.00	

```

77.
78. /*Treatment*/
79. gen expcond = .
    (2,665 missing values generated)

80. replace expcond = 1 if treatment == "gene"
    (879 real changes made)

81. replace expcond = 2 if treatment == "neutral"
    (894 real changes made)

82. replace expcond = 3 if treatment == "ses"
    (892 real changes made)

83. lab def expcond 1 "Genetic Frame" 2 "Neutral" 3 "SES Frame"

84. lab val expcond expcond

85.
86. recode expcond (1=1) (2 3=0) (else=.), gen(genecond)
    (1,786 differences between expcond and genecond)

87. recode expcond (3=1) (1 2=0) (else=.), gen(sescond)
    (2,665 differences between expcond and sescond)

88. lab var genecond "Genetic Framing"

89. lab var sescond "SES Framing"

```

```

90.
91.
92. //MANIPULATION CHECK//
93. //open-ends (check_article)
94. //any appearance of gene/genetic/genetics
95. //vs. any appearance of socioeconomic/SES/socio/econ
96. gen comment_lower = lower(check_article)
   (12 missing values generated)

97. *replace period and commas with space
98. replace comment_lower = substr(comment_lower, ".", " ",.)
   (1,341 real changes made)

99. replace comment_lower = substr(comment_lower, ",", " ",.)
   (276 real changes made)

100 set more off

101 foreach word in gene genes heredity inherit genetic genetics genetically counseling
   > biology {
   2. gen `word`=1 if strpos(comment_lower," `word' ")>0
   3. }
   (2,654 missing values generated)
   (2,645 missing values generated)
   (2,665 missing values generated)
   (2,663 missing values generated)
   (2,406 missing values generated)
   (2,538 missing values generated)
   (2,614 missing values generated)
   (2,632 missing values generated)
   (2,664 missing values generated)

102 egen anygeneopen=anymatch(gene-biology), val(1)

103 tab anygeneopen expcond, col chi2

```

Key
<i>frequency</i>
<i>column percentage</i>

see notes	Genetic F	expcond Neutral	SES Frame	Total
0	482 54.84	864 96.64	870 97.53	2,216 83.15
1	397 45.16	30 3.36	22 2.47	449 16.85
Total	879 100.00	894 100.00	892 100.00	2,665 100.00

Pearson chi2(2) = 750.9674 Pr = 0.000

```

104 foreach word in socio social socioeconomic status economy economic disadvantage disa
   > dvantages therapy SES {
   2. gen `word`=1 if strpos(comment_lower," `word' ")>0
   3. }
   (2,654 missing values generated)
   (2,603 missing values generated)
   (2,422 missing values generated)
   (2,648 missing values generated)
   (2,665 missing values generated)
   (2,607 missing values generated)
   (2,644 missing values generated)
   (2,616 missing values generated)
   (2,652 missing values generated)
   (2,665 missing values generated)

```

```
105 egen anySESopen =anymatch(socio-SES), val(1)
```

```
106 tab anySESopen expcond, col chi2
```

Key
<i>frequency</i>
<i>column percentage</i>

see notes	Genetic F	expcond Neutral	SES Frame	Total
0	863 98.18	878 98.21	554 62.11	2,295 86.12
1	16 1.82	16 1.79	338 37.89	370 13.88
Total	879 100.00	894 100.00	892 100.00	2,665 100.00

Pearson chi2(2) = **646.3993** Pr = **0.000**

```
107
108
109 //BALANCE CHECK
110 recode gender (1=0) (2=1) (else=.), gen(female)
    (2,665 differences between gender and female)
111 recode educ (3 5=0) (6=.25) (7=.5) (8=.75) (9 10=1) (else=.), gen(ed5cat)
    (2,664 differences between education and ed5cat)
112 recode income (1=0) (4=.2) (5=.4) (6=.6) (8=.8) (10 12=1) (else=.), gen(faminc6)
    (2,665 differences between income and faminc6)
113 lab var ed5cat "Education"
114 lab var female "Female"
115 lab var ageyears "Age"
116 lab var pid3cat "Party ID"
117 lab var faminc6 "Income"
118 lab var expcond "Experimental Condition"
119 hotelling ageyear female ed5cat faminc6 pid3cat Black if sescond~=1, by(genecond)
```

-> genecond = 0

Variable	Obs	Mean	Std. dev.	Min	Max
ageyears	882	46.95125	15.26419	18	84
female	882	.5079365	.5002207	0	1
ed5cat	882	.4328231	.3463893	0	1
faminc6	882	.4557823	.3650689	0	1
pid3cat	882	.6071429	.47482	0	1
Black	882	.3253968	.4687888	0	1

-> genecond = 1

Variable	Obs	Mean	Std. dev.	Min	Max
ageyears	871	47.15385	15.56283	18	99
female	871	.5086108	.5002131	0	1
ed5cat	871	.4259472	.3325685	0	1
faminc6	871	.4516648	.3640688	0	1
pid3cat	871	.6211251	.468516	0	1
Black	871	.3409874	.4743135	0	1

2-group Hotelling's T-squared = 1.0134339
 F test statistic: ((1753-6-1)/(1753-2) (6)) x 1.0134339 = .16842333

H0: Vectors of means are equal for the two groups
 F(6,1746) = 0.1684
 Prob > F(6,1746) = 0.9852

120 hotelling ageyear female ed5cat faminc6 pid3cat Black if genecond~=1, by(sescond)

-> sescond = 0

Variable	Obs	Mean	Std. dev.	Min	Max
ageyears	882	46.95125	15.26419	18	84
female	882	.5079365	.5002207	0	1
ed5cat	882	.4328231	.3463893	0	1
faminc6	882	.4557823	.3650689	0	1
pid3cat	882	.6071429	.47482	0	1
Black	882	.3253968	.4687888	0	1

-> sescond = 1

Variable	Obs	Mean	Std. dev.	Min	Max
ageyears	879	46.22981	15.44428	18	86
female	879	.5119454	.5001419	0	1
ed5cat	879	.4032992	.3352071	0	1
faminc6	879	.4323095	.3533801	0	1
pid3cat	879	.6001138	.4751094	0	1
Black	879	.337884	.4732581	0	1

2-group Hotelling's T-squared = 4.6501505
 F test statistic: ((1761-6-1)/(1761-2) (6)) x 4.6501505 = .77282206

H0: Vectors of means are equal for the two groups
 F(6,1754) = 0.7728
 Prob > F(6,1754) = 0.5913

121

122 table (var) (expcond), statistic(mean ageyear female ed5cat faminc6 pid3cat Black) s
 > tatic(sd ageyear female ed5cat faminc6 pid3cat Black) statistic(count expcond) nf
 > ormat(%9.2f mean sd) nototals

	Experimental Condition		
	Genetic Frame	Neutral	SES Frame
Age			
Mean	47.09	46.71	45.99
Standard deviation	15.58	15.38	15.54
Female			
Mean	0.51	0.51	0.51
Standard deviation	0.50	0.50	0.50
Education			
Mean	0.43	0.43	0.40
Standard deviation	0.33	0.35	0.34

Income			
Mean	0.45	0.45	0.43
Standard deviation	0.36	0.37	0.35
Party ID			
Mean	0.62	0.61	0.60
Standard deviation	0.47	0.47	0.47
Black			
Mean	0.34	0.33	0.34
Standard deviation	0.47	0.47	0.47
Experimental Condition			
Number of nonmissing values	879	894	892

123 collect levelsof result

Collection: Table
 Dimension: **result**
 Levels: count mean sd

124 collect style header result, level(hide)

125 collect title "Means, SD, N per Experimental Condition"

126 collect preview

Means, SD, N per Experimental Condition

	Experimental Condition		
	Genetic Frame	Neutral	SES Frame
Age	47.09	46.71	45.99
	15.58	15.38	15.54
Female	0.51	0.51	0.51
	0.50	0.50	0.50
Education	0.43	0.43	0.40
	0.33	0.35	0.34
Income	0.45	0.45	0.43
	0.36	0.37	0.35
Party ID	0.62	0.61	0.60
	0.47	0.47	0.47
Black	0.34	0.33	0.34
	0.47	0.47	0.47
Experimental Condition	879	894	892

127

128

129 /*DVs*/

130 recode bat1_health (1=0 "not at all") (2=.33) (3=.67) (4=1 "A great deal") (else=.), gen
 > (genes_health)
 (2,665 differences between **bat1_health** and **genes_health**)

131 recode bat2_health (1=0 "not at all") (2=.33) (3=.67) (4=1 "A great deal") (else=.), gen
 > (ses_health)
 (2,665 differences between **bat2_health** and **ses_health**)

132

133 recode bat1_edu (1=0 "not at all") (2=.33) (3=.67) (4=1 "A great deal") (else=.), gen(ge
 > nes_edu)
 (2,665 differences between **bat1_edu** and **genes_edu**)

```

134 recode bat2_edu (1=0 "not at all") (2=.33) (3=.67) (4=1 "A great deal") (else=.), gen(se
> s_edu)
(2,665 differences between bat2_edu and ses_edu)

135
136 recode bat1_crime (1=0 "not at all") (2=.33) (3=.67) (4=1 "A great deal") (else=.), gen(
> genes_crime)
(2,665 differences between bat1_crime and genes_crime)

137 recode bat2_crime (1=0 "not at all") (2=.33) (3=.67) (4=1 "A great deal") (else=.), gen(
> ses_crime)
(2,665 differences between bat2_crime and ses_crime)

138
139 gen genes_index = (genes_health+genes_edu+genes_crime)/3
(2 missing values generated)

140 gen ses_index = (ses_health+ses_edu+ses_crime)/3
(3 missing values generated)

141 alpha genes_health genes_edu genes_crime

Test scale = mean(unstandardized items)

Average interitem covariance:      .0616805
Number of items in the scale:      3
Scale reliability coefficient:      0.7733

142 alpha ses_health ses_edu ses_crime

Test scale = mean(unstandardized items)

Average interitem covariance:      .0840417
Number of items in the scale:      3
Scale reliability coefficient:      0.8851

143 corr genes_index ses_index
(obs=2,660)

```

	genes_~x ses_in~x	
genes_index	1.0000	
ses_index	0.1159	1.0000

```

144
145 *****TABLE 1*****
146 foreach v of varlist genes_index genes_health genes_edu genes_crime ses_index ses_he
> alth ses_edu ses_crime {
2. reg `v' genecond sescond
3. est store `v'
4. }

```

Source	SS	df	MS	Number of obs	=	2,663
Model	1.28385755	2	.641928773	F(2, 2660)	=	8.09
Residual	211.039725	2,660	.079338242	Prob > F	=	0.0003
				R-squared	=	0.0060
				Adj R-squared	=	0.0053
Total	212.323582	2,662	.079760925	Root MSE	=	.28167

genes_index	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
genecond	.0489863	.0133868	3.66	0.000	.0227367	.075236
sescond	.0049631	.0133337	0.37	0.710	-.0211824	.0311087
_cons	.3604442	.0094257	38.24	0.000	.3419617	.3789267

Source	SS	df	MS	Number of obs	=	2,664
Model	4.92894024	2	2.46447012	F(2, 2661)	=	26.07
Residual	251.529136	2,661	.09452429	Prob > F	=	0.0000
				R-squared	=	0.0192
				Adj R-squared	=	0.0185
Total	256.458076	2,663	.096304197	Root MSE	=	.30745

genes_health	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
genecond	.0677174	.0146078	4.64	0.000	.0390737	.0963611
sescond	-.0362922	.014554	-2.49	0.013	-.0648305	-.0077538
_cons	.537402	.0102884	52.23	0.000	.517228	.557576

Source	SS	df	MS	Number of obs	=	2,664
Model	.623197954	2	.311598977	F(2, 2661)	=	2.73
Residual	303.32784	2,661	.113990169	Prob > F	=	0.0652
				R-squared	=	0.0021
				Adj R-squared	=	0.0013
Total	303.951038	2,663	.11413858	Root MSE	=	.33762

genes_edu	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
genecond	.0372517	.0160417	2.32	0.020	.0057963	.0687071
sescond	.0222431	.015978	1.39	0.164	-.0090875	.0535737
_cons	.2504362	.0112918	22.18	0.000	.2282946	.2725779

Source	SS	df	MS	Number of obs	=	2,665
Model	.761709996	2	.380854998	F(2, 2662)	=	2.78
Residual	365.186574	2,662	.137185039	Prob > F	=	0.0625
				R-squared	=	0.0021
				Adj R-squared	=	0.0013
Total	365.948284	2,664	.137367974	Root MSE	=	.37038

genes_crime	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
genecond	.0404047	.0175932	2.30	0.022	.005907	.0749024
sescond	.0280479	.0175284	1.60	0.110	-.0063228	.0624187
_cons	.2943848	.0123875	23.76	0.000	.2700946	.3186749

Source	SS	df	MS	Number of obs	=	2,662
Model	.057118836	2	.028559418	F(2, 2659)	=	0.30
Residual	252.57115	2,659	.09498727	Prob > F	=	0.7404
				R-squared	=	0.0002
				Adj R-squared	=	-0.0005
Total	252.628269	2,661	.094937343	Root MSE	=	.3082

ses_index	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
genecond	-.0112363	.0146476	-0.77	0.443	-.0399581	.0174854
sescond	-.0041408	.0145978	-0.28	0.777	-.032765	.0244833
_cons	.6671749	.0103193	64.65	0.000	.6469402	.6874096

Source	SS	df	MS	Number of obs	=	2,664
Model	.205672692	2	.102836346	F(2, 2661)	=	0.92
Residual	297.969319	2,661	.111976445	Prob > F	=	0.3993
				R-squared	=	0.0007
				Adj R-squared	=	-0.0001
Total	298.174992	2,663	.11196958	Root MSE	=	.33463

ses_health	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
genecond	-.0140929	.0158992	-0.89	0.375	-.0452689	.0170832
sescond	.0070934	.0158407	0.45	0.654	-.0239679	.0381547
_cons	.6573124	.0111979	58.70	0.000	.6353549	.67927

Source	SS	df	MS	Number of obs	=	2,665
Model	.06869301	2	.034346505	F(2, 2662)	=	0.28
Residual	321.174066	2,662	.120651415	Prob > F	=	0.7523
				R-squared	=	0.0002
				Adj R-squared	=	-0.0005
Total	321.242759	2,664	.120586621	Root MSE	=	.34735

ses_edu	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
genecond	-.0100036	.016499	-0.61	0.544	-.0423557	.0223485
sescond	-.0113637	.0164383	-0.69	0.489	-.0435967	.0208693
_cons	.6617897	.0116171	56.97	0.000	.6390103	.6845692

Source	SS	df	MS	Number of obs	=	2,663
Model	.034508403	2	.017254201	F(2, 2660)	=	0.15
Residual	313.324196	2,660	.117791051	Prob > F	=	0.8637
				R-squared	=	0.0001
				Adj R-squared	=	-0.0006
Total	313.358704	2,662	.117715516	Root MSE	=	.34321

ses_crime	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
genecond	-.0085002	.0163068	-0.52	0.602	-.0404754	.023475
sescond	-.0062709	.0162513	-0.39	0.700	-.0381374	.0255956
_cons	.6813102	.011485	59.32	0.000	.6587898	.7038306

147 est table genes_index genes_health genes_edu genes_crime ses_index ses_health ses_ed
 > u ses_crime, b(%9.2f) se stats(N) style(col) eq(1)

Variable	genes_i~x ses_crime	genes_h~h	genes_edu	genes_c~e	ses_index	ses_heath
genecond	0.05	0.07	0.04	0.04	-0.01	-0.01
-0.01	-0.01					
0.02	0.01	0.01	0.02	0.02	0.01	0.02
0.02	0.02					
sescond	0.00	-0.04	0.02	0.03	-0.00	0.01
-0.01	-0.01					
0.02	0.01	0.01	0.02	0.02	0.01	0.02
0.02	0.02					
_cons	0.36	0.54	0.25	0.29	0.67	0.66
-0.66	0.68					
0.01	0.01	0.01	0.01	0.01	0.01	0.01
0.01	0.01					
N	2663	2664	2664	2665	2662	2664
2665	2663					

> Legend: b/se

```
148 est table genes_index genes_health genes_edu genes_crime ses_index ses_health ses_ed
> u ses_crime, b(%9.2f) star(.05 .01 .001) stats(N) style(col) eq(1)
```

Variable	genes_index	genes_health	genes_edu	genes_crime	ses_index	ses_health	ses_ed
genecond	0.05***	0.07***	0.04*	0.04*	-0.01		
sescond	-0.01	-0.01	0.02	0.03	-0.00		
_cons	0.36***	0.54***	0.25***	0.29***	0.67		
N	2663	2664	2664	2665	2662		

> Legend: * p<.05; ** p<.01; *** p<.001

```
149
150 /*Testing equivalence across conditions*/
151 suest genes_health genes_edu
```

Simultaneous results for genes_health, genes_edu

Number of obs = 2,665

	Coefficient	Robust std. err.	z	P> z	[95% conf. interval]	
genes_health_mean						
genecond	.0677174	.0141624	4.78	0.000	.0399596	.0954753
sescond	-.0362922	.0148271	-2.45	0.014	-.0653527	-.0072316
_cons	.537402	.0100765	53.33	0.000	.5176525	.5571516
genes_health_lvar						
_cons	-2.358898	.0211703	-111.43	0.000	-2.400391	-2.317405
genes_edu_mean						
genecond	.0372517	.0158664	2.35	0.019	.0061542	.0683492
sescond	.0222431	.0159154	1.40	0.162	-.0089505	.0534368
_cons	.2504362	.0109596	22.85	0.000	.2289558	.2719167
genes_edu_lvar						
_cons	-2.171643	.0235114	-92.37	0.000	-2.217725	-2.125562

```
152 test [genes_health_mean]genecond=[genes_edu_mean]genecond
```

(1) [genes_health_mean]genecond - [genes_edu_mean]genecond = 0

chi2(1) = 3.51
 Prob > chi2 = 0.0611

164 disp -.0489863/.2757905
-.17762142

165
 166 ttest genes_health if sescond==0, by(genecond)

Two-sample t test with equal variances

Group	Obs	Mean	Std. err.	Std. dev.	[95% conf. interval]	
0	893	.537402	.0100802	.3012287	.5176183	.5571858
1	879	.6051195	.0099556	.2951633	.5855799	.624659
Combined	1,772	.5709932	.0071283	.3000686	.5570124	.5849741
diff		-.0677174	.01417		-.0955092	-.0399257

diff = mean(0) - mean(1) t = **-4.7789**
 H0: diff = 0 Degrees of freedom = **1770**
 Ha: diff < 0 Ha: diff != 0 Ha: diff > 0
 Pr(T < t) = **0.0000** Pr(|T| > |t|) = **0.0000** Pr(T > t) = **1.0000**

167 disp -.0677174/.3000686
-.22567306

```

168
169
170 *****HETEROGENEITY*****
171 *****START FIGURE 5*****
172 *****PLACE FULL RESULTS IN APPENDIX*****
173 forval j=1/3 {
    2. foreach v of varlist genes_index genes_health genes_edu genes_crime ses_index ses
    > health ses_edu ses_crime {
    3. reg `v' genecond sescond if samplegroups==`j'
    4. est store `v'_`j'
    5. }
    6. }
    
```

Source	SS	df	MS	Number of obs	=	883
Model	.284083546	2	.142041773	F(2, 880)	=	2.09
Residual	59.8496404	880	.068010955	Prob > F	=	0.1245
Total	60.1337239	882	.068178825	R-squared	=	0.0047
				Adj R-squared	=	0.0025
				Root MSE	=	.26079

genes_index	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
genecond	.0280362	.0215588	1.30	0.194	-.0142764	.0703487
sescond	-.0157477	.0212944	-0.74	0.460	-.0575414	.0260461
_cons	.3777118	.0149819	25.21	0.000	.3483073	.4071163

Source	SS	df	MS	Number of obs	=	883
Model	1.51402462	2	.757012309	F(2, 880)	=	9.18
Residual	72.5572571	880	.082451428	Prob > F	=	0.0001
Total	74.0712817	882	.083981045	R-squared	=	0.0204
				Adj R-squared	=	0.0182
				Root MSE	=	.28714

genes_health	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
genecond	.020058	.0237374	0.84	0.398	-.0265306	.0666465
sescond	-.076236	.0234463	-3.25	0.001	-.1222532	-.0302187
_cons	.5813201	.016496	35.24	0.000	.5489441	.6136962

Source	SS	df	MS	Number of obs	=	883
Model	.250529457	2	.125264728	F(2, 880)	=	1.17
Residual	94.6073427	880	.107508344	Prob > F	=	0.3124
				R-squared	=	0.0026
				Adj R-squared	=	0.0004
Total	94.8578722	882	.107548608	Root MSE	=	.32788

genes_edu	Coefficient	Std. err.	t	P> t	[95% conf. interval]
genecond	.0412355	.0271054	1.52	0.129	-.0119633 .0944342
sescond	.022865	.026773	0.85	0.393	-.0296814 .0754114
_cons	.2484819	.0188365	13.19	0.000	.2115122 .2854515

Source	SS	df	MS	Number of obs	=	883
Model	.080882124	2	.040441062	F(2, 880)	=	0.34
Residual	104.792151	880	.11908199	Prob > F	=	0.7121
				R-squared	=	0.0008
				Adj R-squared	=	-0.0015
Total	104.873033	882	.118903666	Root MSE	=	.34508

genes_crime	Coefficient	Std. err.	t	P> t	[95% conf. interval]
genecond	.0228151	.0285271	0.80	0.424	-.033174 .0788041
sescond	.0061279	.0281773	0.22	0.828	-.0491746 .0614305
_cons	.3033333	.0198245	15.30	0.000	.2644246 .3422421

Source	SS	df	MS	Number of obs	=	882
Model	.459484149	2	.229742074	F(2, 879)	=	2.59
Residual	77.9551709	879	.088686201	Prob > F	=	0.0756
				R-squared	=	0.0059
				Adj R-squared	=	0.0036
Total	78.414655	881	.089006419	Root MSE	=	.2978

ses_index	Coefficient	Std. err.	t	P> t	[95% conf. interval]
genecond	-.0371966	.0246382	-1.51	0.131	-.0855532 .01116
sescond	-.0541384	.0243366	-2.22	0.026	-.101903 -.0063738
_cons	.5201766	.0171366	30.35	0.000	.4865432 .55381

Source	SS	df	MS	Number of obs	=	882
Model	.252002135	2	.126001067	F(2, 879)	=	1.25
Residual	88.4521516	879	.100628159	Prob > F	=	0.2864
				R-squared	=	0.0028
				Adj R-squared	=	0.0006
Total	88.7041537	881	.100685759	Root MSE	=	.31722

ses_health	Coefficient	Std. err.	t	P> t	[95% conf. interval]
genecond	-.0345221	.0262447	-1.32	0.189	-.0860317 .0169874
sescond	-.0365849	.0259234	-1.41	0.159	-.0874639 .014294
_cons	.5068543	.0182539	27.77	0.000	.4710279 .5426807

Source	SS	df	MS	Number of obs	=	883
Model	.78060013	2	.390300065	F(2, 880)	=	3.36
Residual	102.168378	880	.116100429	Prob > F	=	0.0351
				R-squared	=	0.0076
				Adj R-squared	=	0.0053
Total	102.948978	882	.116722197	Root MSE	=	.34074

ses_edu	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
genecond	-.0296086	.0281677	-1.05	0.293	-.0848923	.0256751
sescond	-.0718275	.0278223	-2.58	0.010	-.1264333	-.0172217
_cons	.519538	.0195747	26.54	0.000	.4811194	.5579566

Source	SS	df	MS	Number of obs	=	883
Model	.539310997	2	.269655498	F(2, 880)	=	2.31
Residual	102.584446	880	.116573234	Prob > F	=	0.0995
				R-squared	=	0.0052
				Adj R-squared	=	0.0030
Total	103.123757	882	.116920359	Root MSE	=	.34143

ses_crime	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
genecond	-.0484041	.028225	-1.71	0.087	-.1038002	.0069921
sescond	-.0549478	.0278789	-1.97	0.049	-.1096647	-.0002309
_cons	.5350825	.0196145	27.28	0.000	.4965858	.5735793

Source	SS	df	MS	Number of obs	=	887
Model	.870587695	2	.435293848	F(2, 884)	=	6.60
Residual	58.2891439	884	.065937946	Prob > F	=	0.0014
				R-squared	=	0.0147
				Adj R-squared	=	0.0125
Total	59.1597316	886	.066771706	Root MSE	=	.25678

genes_index	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
genecond	.0532021	.02109	2.52	0.012	.0118098	.0945943
sescond	-.0214341	.021108	-1.02	0.310	-.0628617	.0199935
_cons	.3004251	.0148751	20.20	0.000	.2712305	.3296197

Source	SS	df	MS	Number of obs	=	887
Model	2.38146813	2	1.19073407	F(2, 884)	=	13.18
Residual	79.8544133	884	.090333047	Prob > F	=	0.0000
				R-squared	=	0.0290
				Adj R-squared	=	0.0268
Total	82.2358814	886	.092817022	Root MSE	=	.30055

genes_health	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
genecond	.0775942	.0246849	3.14	0.002	.0291464	.1260421
sescond	-.048434	.024706	-1.96	0.050	-.0969233	.0000552
_cons	.4901007	.0174107	28.15	0.000	.4559296	.5242717

Source	SS	df	MS	Number of obs	=	888
Model	.409462137	2	.204731068	F(2, 885)	=	2.32
Residual	78.042783	885	.088183936	Prob > F	=	0.0987
				R-squared	=	0.0052
				Adj R-squared	=	0.0030
Total	78.4522451	887	.088446725	Root MSE	=	.29696

genes_edu	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
genecond	.0362555	.0243692	1.49	0.137	-.0115726	.0840837
sescond	-.0150026	.0243901	-0.62	0.539	-.0628717	.0328665
_cons	.1938462	.0171735	11.29	0.000	.1601406	.2275517

Source	SS	df	MS	Number of obs	=	888
Model	.394540758	2	.197270379	F(2, 885)	=	1.84
Residual	94.7606596	885	.107074192	Prob > F	=	0.1590
				R-squared	=	0.0041
				Adj R-squared	=	0.0019
Total	95.1552003	887	.107277565	Root MSE	=	.32722

genes_crime	Coefficient	Std. err.	t	P> t	[95% conf. interval]
genecond	.04265	.0268528	1.59	0.113	-.0100526 .0953525
sescond	-.0039722	.0268757	-0.15	0.883	-.0567198 .0487754
_cons	.2204348	.0189237	11.65	0.000	.1832942 .2575754

Source	SS	df	MS	Number of obs	=	887
Model	.436093063	2	.218046532	F(2, 884)	=	2.90
Residual	66.3530473	884	.075060008	Prob > F	=	0.0553
				R-squared	=	0.0065
				Adj R-squared	=	0.0043
Total	66.7891403	886	.075382777	Root MSE	=	.27397

ses_index	Coefficient	Std. err.	t	P> t	[95% conf. interval]
genecond	-.0063231	.0224828	-0.28	0.779	-.0504491 .0378028
sescond	.0436815	.0225214	1.94	0.053	-.0005202 .0878832
_cons	.7503345	.0158441	47.36	0.000	.7192379 .781431

Source	SS	df	MS	Number of obs	=	888
Model	.804951316	2	.402475658	F(2, 885)	=	4.26
Residual	83.6687943	885	.094541011	Prob > F	=	0.0145
				R-squared	=	0.0095
				Adj R-squared	=	0.0073
Total	84.4737456	887	.095235339	Root MSE	=	.30748

ses_health	Coefficient	Std. err.	t	P> t	[95% conf. interval]
genecond	-.0092601	.0252323	-0.37	0.714	-.0587822 .040262
sescond	.0588702	.0252539	2.33	0.020	.0093057 .1084346
_cons	.7295652	.0177818	41.03	0.000	.6946659 .7644645

Source	SS	df	MS	Number of obs	=	888
Model	.314966108	2	.157483054	F(2, 885)	=	1.67
Residual	83.6178638	885	.094483462	Prob > F	=	0.1894
				R-squared	=	0.0038
				Adj R-squared	=	0.0015
Total	83.9328299	887	.094625513	Root MSE	=	.30738

ses_edu	Coefficient	Std. err.	t	P> t	[95% conf. interval]
genecond	-.0110761	.0252246	-0.44	0.661	-.0605832 .0384309
sescond	.0333441	.0252462	1.32	0.187	-.0162053 .0828935
_cons	.7606355	.0177763	42.79	0.000	.7257468 .7955242

Source	SS	df	MS	Number of obs	=	887
Model	.307608186	2	.153804093	F(2, 884)	=	1.66
Residual	81.8381889	884	.092577137	Prob > F	=	0.1905
				R-squared	=	0.0037
				Adj R-squared	=	0.0015
Total	82.1457971	886	.092715347	Root MSE	=	.30426

ses_crime	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
genecond	.0013668	.0249688	0.05	0.956	-.0476383	.050372
sescond	.0402553	.0250117	1.61	0.108	-.0088339	.0893446
_cons	.7608027	.0175961	43.24	0.000	.7262677	.7953377

Source	SS	df	MS	Number of obs	=	893
Model	.66375717	2	.331878585	F(2, 890)	=	3.49
Residual	84.7253449	890	.095197017	Prob > F	=	0.0310
Total	85.389102	892	.095727693	R-squared	=	0.0078
				Adj R-squared	=	0.0055
				Root MSE	=	.30854

genes_index	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
genecond	.0639992	.0253642	2.52	0.012	.0142187	.1137798
sescond	.049433	.0253434	1.95	0.051	-.0003068	.0991727
_cons	.4037785	.0180559	22.36	0.000	.3683414	.4392157

Source	SS	df	MS	Number of obs	=	894
Model	1.93295099	2	.966475494	F(2, 891)	=	9.06
Residual	95.0348978	891	.10666094	Prob > F	=	0.0001
Total	96.9678488	893	.108586617	R-squared	=	0.0199
				Adj R-squared	=	0.0177
				Root MSE	=	.32659

genes_health	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
genecond	.1052129	.026826	3.92	0.000	.0525634	.1578623
sescond	.0151464	.026826	0.56	0.572	-.037503	.0677959
_cons	.5401027	.0191122	28.26	0.000	.5025925	.577613

Source	SS	df	MS	Number of obs	=	893
Model	.455333848	2	.227666924	F(2, 890)	=	1.67
Residual	121.600423	890	.136629689	Prob > F	=	0.1895
Total	122.055757	892	.136833809	R-squared	=	0.0037
				Adj R-squared	=	0.0015
				Root MSE	=	.36963

genes_edu	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
genecond	.031989	.0303865	1.05	0.293	-.0276486	.0916267
sescond	.0552369	.0303616	1.82	0.069	-.0043519	.1148256
_cons	.310411	.0216312	14.35	0.000	.2679568	.3528651

Source	SS	df	MS	Number of obs	=	894
Model	.932601102	2	.466300551	F(2, 891)	=	2.74
Residual	151.874462	891	.170453942	Prob > F	=	0.0654
Total	152.807063	893	.171116532	R-squared	=	0.0061
				Adj R-squared	=	0.0039
				Root MSE	=	.41286

genes_crime	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
genecond	.0523675	.0339122	1.54	0.123	-.0141897	.1189246
sescond	.0779156	.0339122	2.30	0.022	.0113585	.1444728
_cons	.3608219	.0241608	14.93	0.000	.3134031	.4082407

Source	SS	df	MS	Number of obs	=	893
Model	.002835184	2	.001417592	F(2, 890)	=	0.02
Residual	67.9536814	890	.076352451	Prob > F	=	0.9816
				R-squared	=	0.0000
				Adj R-squared	=	-0.0022
Total	67.9565166	892	.076184436	Root MSE	=	.27632

ses_index	Coefficient	Std. err.	t	P> t	[95% conf. interval]
genecond	-.0020471	.0227166	-0.09	0.928	-.0466314 .0425372
sescond	-.0043727	.0227166	-0.19	0.847	-.0489569 .0402116
_cons	.7342841	.0161981	45.33	0.000	.7024931 .7660751

Source	SS	df	MS	Number of obs	=	894
Model	.016968435	2	.008484217	F(2, 891)	=	0.09
Residual	86.0986534	891	.096631485	Prob > F	=	0.9160
				R-squared	=	0.0002
				Adj R-squared	=	-0.0020
Total	86.1156218	893	.096434067	Root MSE	=	.31086

ses_health	Coefficient	Std. err.	t	P> t	[95% conf. interval]
genecond	-.0105995	.0255336	-0.42	0.678	-.0607125 .0395135
sescond	-.0041211	.0255336	-0.16	0.872	-.0542341 .0459919
_cons	.7389384	.0181915	40.62	0.000	.7032352 .7746415

Source	SS	df	MS	Number of obs	=	894
Model	.000856368	2	.000428184	F(2, 891)	=	0.00
Residual	95.1765781	891	.106819953	Prob > F	=	0.9960
				R-squared	=	0.0000
				Adj R-squared	=	-0.0022
Total	95.1774345	893	.106581674	Root MSE	=	.32683

ses_edu	Coefficient	Std. err.	t	P> t	[95% conf. interval]
genecond	-.0000454	.026846	-0.00	0.999	-.0527341 .0526433
sescond	.0020476	.026846	0.08	0.939	-.0506411 .0547363
_cons	.7081849	.0191265	37.03	0.000	.6706468 .7457231

Source	SS	df	MS	Number of obs	=	893
Model	.036446112	2	.018223056	F(2, 890)	=	0.19
Residual	87.2276373	890	.098008581	Prob > F	=	0.8304
				R-squared	=	0.0004
				Adj R-squared	=	-0.0018
Total	87.2640834	892	.09782969	Root MSE	=	.31306

ses_crime	Coefficient	Std. err.	t	P> t	[95% conf. interval]
genecond	.0083425	.0257373	0.32	0.746	-.0421704 .0588554
sescond	-.0072056	.0257373	-0.28	0.780	-.0577185 .0433072
_cons	.75189	.0183521	40.97	0.000	.7158716 .7879085

```

174 forval j=1/3 {
    2. est table genes_index`j' genes_health`j' genes_edu`j' genes_crime`j' ses_inde
    > x`j' ses_health`j' ses_edu`j' ses_crime`j', b(%9.2f) se stats(N) style(col) eq(1)
    > )
    3. est table genes_index`j' genes_health`j' genes_edu`j' genes_crime`j' ses_inde
    > x`j' ses_health`j' ses_edu`j' ses_crime`j', b(%9.2f) star(.05 .01 .001) stats(N)
    > style(col) eq(1)
    4. }

```

Variable	genes_i~1 ses_cri~1	genes_h~1	genes_e~1	genes_c~1	ses_ind~1	ses_hea~1
genecond	0.03	0.02	0.04	0.02	-0.04	-0.03
-0.03	-0.05					
	0.02	0.02	0.03	0.03	0.02	0.03
0.03	0.03					
sescond	-0.02	-0.08	0.02	0.01	-0.05	-0.04
-0.07	-0.05					
	0.02	0.02	0.03	0.03	0.02	0.03
0.03	0.03					
_cons	0.38	0.58	0.25	0.30	0.52	0.51
-0.52	0.54					
	0.01	0.02	0.02	0.02	0.02	0.02
0.02	0.02					
N	883	883	883	883	882	882
883	883					

> Legend: b/se

Variable	genes_inde~1 ses_edu_1	genes_heal~1 ses_crime_1	genes_edu_1	genes_crim~1	ses_index
genecond	0.03	0.02	0.04	0.02	-0.04
-0.03	-0.03	-0.05			
sescond	-0.02	-0.08**	0.02	0.01	-0.05
* -0.04	-0.07**	-0.05*			
*** _cons	0.38***	0.58***	0.25***	0.30***	0.52
0.51***	0.52***	0.54***			
N	883	883	883	883	882
882	883	883	883		

> Legend: * p<.05; ** p<.01; *** p<.001

Variable	genes_i~2 ses_cri~2	genes_h~2	genes_e~2	genes_c~2	ses_ind~2	ses_hea~2
genecond	0.05	0.08	0.04	0.04	-0.01	-0.01
-0.01	0.00					
	0.02	0.02	0.02	0.03	0.02	0.03
0.03	0.02					
sescond	-0.02	-0.05	-0.02	-0.00	0.04	0.06
0.03	0.04					
	0.02	0.02	0.02	0.03	0.02	0.03
0.03	0.03					
_cons	0.30	0.49	0.19	0.22	0.75	0.73

>		0.76	0.76					
>		0.02	0.01	0.02	0.02	0.02	0.02	0.02
			0.02					
>	N	888	887	887	888	888	887	888
			887					

> Legend: b/se

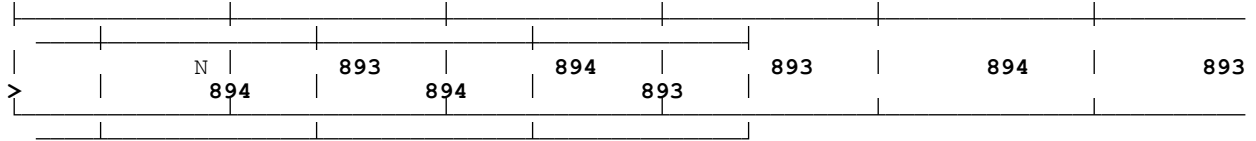
>	Variable	genes_inde~2	genes_heal~2	genes_edu_2	genes_crim~2	ses_index
>	_2	ses_health_2	ses_edu_2	ses_crime_2		
>	genecond	0.05*	-0.01	0.08**	0.04	0.04
>	-0.01			0.00		-0.01
>	sescond	-0.02	0.03	-0.05	-0.02	-0.00
>	0.06*			0.04		0.04
>	_cons	0.30***	0.76***	0.49***	0.19***	0.22***
>	***	0.73***		0.76***		0.75
>	N	888	888	887	888	887

> Legend: * p<.05; ** p<.01; *** p<.001

>	Variable	genes_i~3	genes_h~3	genes_e~3	genes_c~3	ses_ind~3	ses_hear~3
>	ses_edu_3	ses_cri~3					
>	genecond	0.06	0.11	0.03	0.05	-0.00	-0.01
>	-0.00	0.01					
>	0.03	0.03	0.03	0.03	0.03	0.02	0.03
>	sescond	0.05	0.02	0.06	0.08	-0.00	-0.00
>	0.00	-0.01					
>	0.03	0.03	0.03	0.03	0.03	0.02	0.03
>	0.03	0.03					
>	_cons	0.40	0.54	0.31	0.36	0.73	0.74
>	-0.71	0.75					
>	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		0.02					
>	N	893	894	893	894	893	894
		893					

> Legend: b/se

>	Variable	genes_inde~3	genes_heal~3	genes_edu_3	genes_crim~3	ses_index
>	_3	ses_health_3	ses_edu_3	ses_crime_3		
>	genecond	0.06*	-0.00	0.11***	0.03	0.05
>	-0.01			0.01		-0.00
>	sescond	0.05	0.00	0.02	0.06	0.08*
>	-0.00			-0.01		-0.00
>	_cons	0.40***	0.71***	0.54***	0.31***	0.36***
>	***	0.74***		0.75***		0.73



> Legend: * p<.05; ** p<.01; *** p<.001

```
175
176 coefplot (genes_index, mcolor(black) mfcolor(white) lcolor(gray)) (genes_index_2, mc
> olor(blue) lcolor(blue)) (genes_index_3, mcolor(black) lcolor(black)) (genes_index_1
> , mcolor(red)) , legend(label(2 "All") label(4 "White DEM") label(6 "Black") label(8
> "White GOP") row(4) position(3)) xline(0) title("DV: Genes Index") name(genes_index
> , replace) keep(genecond sescond)
```

```
177
178 coefplot (ses_index, mcolor(black) mfcolor(white) lcolor(gray)) (ses_index_2, mcolor
> (blue) lcolor(blue)) (ses_index_3, mcolor(black) lcolor(black)) (ses_index_1, mcolor
> (red)) , legend(label(2 "All") label(4 "White DEM") label(6 "Black") label(8 "White
> GOP") row(4) position(3)) xline(0) title("DV: SES Index") name(ses_index, replace) k
> eep(genecond sescond)
```

```
179
180 graph combine genes_index ses_index, ycommon xcommon ysize(6) xsize(12)
```

```
181 graph export Figure5.pdf, replace
file Figure5.pdf saved as PDF format
```

```
182 *****END FIGURE 5*****
```

```
183
184 *test for difference in effect size
185 suetest genes_index_1 genes_index_2
```

Simultaneous results for genes_index_1, genes_index_2

Number of obs = 1,770

	Coefficient	Robust std. err.	z	P> z	[95% conf. interval]	
genes_index_1_mean						
genecond	.0280362	.021629	1.30	0.195	-.014356	.0704283
sescond	-.0157477	.0208964	-0.75	0.451	-.0567038	.0252084
_cons	.3777118	.0145084	26.03	0.000	.3492758	.4061478
genes_index_1_lnvar						
_cons	-2.688086	.0438059	-61.36	0.000	-2.773944	-2.602229
genes_index_2_mean						
genecond	.0532021	.0208529	2.55	0.011	.0123311	.094073
sescond	-.0214341	.020806	-1.03	0.303	-.0622132	.0193449
_cons	.3004251	.0141447	21.24	0.000	.2727021	.3281481
genes_index_2_lnvar						
_cons	-2.719041	.0479084	-56.76	0.000	-2.81294	-2.625143

```
186 test [genes_index_1_mean]genecond=[genes_index_2_mean]genecond
```

```
( 1) [genes_index_1_mean]genecond - [genes_index_2_mean]genecond = 0
      chi2( 1) =    0.70
      Prob > chi2 =    0.4022
```

187 suest genes_index_1 genes_index_3

Simultaneous results for genes_index_1, genes_index_3

Number of obs = 1,776

	Coefficient	Robust std. err.	z	P> z	[95% conf. interval]	
genes_index_1_mean						
genecond	.0280362	.021629	1.30	0.195	-.0143559	.0704283
sescond	-.0157477	.0208963	-0.75	0.451	-.0567038	.0252084
_cons	.3777118	.0145084	26.03	0.000	.3492758	.4061478
genes_index_1_lnvar						
_cons	-2.688086	.0438058	-61.36	0.000	-2.773944	-2.602229
genes_index_3_mean						
genecond	.0639992	.0243343	2.63	0.009	.0163048	.1116936
sescond	.049433	.025853	1.91	0.056	-.001238	.100104
_cons	.4037785	.017464	23.12	0.000	.3695497	.4380074
genes_index_3_lnvar						
_cons	-2.351807	.0314744	-74.72	0.000	-2.413495	-2.290118

188 test [genes_index_1_mean]genecond=[genes_index_3_mean]genecond

(1) [genes_index_1_mean]genecond - [genes_index_3_mean]genecond = 0

 chi2(1) = 1.22
 Prob > chi2 = 0.2693

189

190

191 *****FOOTNOTE & APPENDIX

192 //timing

193 sum treat_timer_First_Click treat_timer_Last_Click treat_timer_Page_Submit

Variable	Obs	Mean	Std. dev.	Min	Max
tr~rst_Click	2,665	31.49364	73.6226	0	2208.32
tr~ast_Click	2,665	46.35247	96.65928	0	2208.32
treat_time~t	2,665	50.14526	97.27279	1.195	2210.284

194 table expcond samplegroups, stat(mean treat_timer_Page_Submit) nformat(%9.2f)

Experimental Condition	samplegroups			Total
	White REP	White DEM	Black	
Genetic Frame	52.72	49.60	70.81	57.87
Neutral	36.03	27.66	53.58	38.96
SES Frame	52.02	46.31	62.70	53.74
Total	46.76	41.12	62.45	50.15

195

```
196 //word length of surprise recall
197 gen wordcount = wordcount(comment_lower)
198 table expcond samplegroups, stat(mean wordcount) nformat(%9.2f)
```

	samplegroups			
	White REP	White DEM	Black	Total
Experimental Condition				
Genetic Frame	15.11	17.19	14.97	15.76
Neutral	13.16	14.28	13.12	13.52
SES Frame	16.30	19.66	14.26	16.72
Total	14.84	17.03	14.13	15.33

```
199 reg wordcount i.expcond i.samplegroups
```

Source	SS	df	MS	Number of obs	=	2,665
Model	8917.80722	4	2229.45181	F(4, 2660)	=	21.25
Residual	279071.95	2,660	104.914267	Prob > F	=	0.0000
				R-squared	=	0.0310
				Adj R-squared	=	0.0295
Total	287989.758	2,664	108.104263	Root MSE	=	10.243

wordcount	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
expcond						
Neutral	-2.249207	.4865942	-4.62	0.000	-3.203348	-1.295066
SES Frame	.9679589	.4868212	1.99	0.047	.0133725	1.922545
samplegroups						
White DEM	2.173945	.486813	4.47	0.000	1.219374	3.128515
Black	-.7514431	.4860379	-1.55	0.122	-1.704494	.2016074
_cons	15.28882	.4484056	34.10	0.000	14.40956	16.16808

```
200 reg wordcount i.expcond i.samplegroups ageyear female ed5cat faminc6 pid3cat
```

Source	SS	df	MS	Number of obs	=	2,632
Model	12105.1378	9	1345.01531	F(9, 2622)	=	13.14
Residual	268431.795	2,622	102.376733	Prob > F	=	0.0000
				R-squared	=	0.0431
				Adj R-squared	=	0.0399
Total	280536.933	2,631	106.627492	Root MSE	=	10.118

wordcount	Coefficient	Std. err.	t	P> t	[95% conf. interval]	
expcond						
Neutral	-2.383657	.4834677	-4.93	0.000	-3.331674	-1.43564
SES Frame	.8326202	.4842147	1.72	0.086	-.1168614	1.782102
samplegroups						
White DEM	1.027103	1.216668	0.84	0.399	-1.358623	3.412829
Black	-1.483488	1.060512	-1.40	0.162	-3.563014	.596038
ageyears	-.0351586	.0132076	-2.66	0.008	-.0610569	-.0092603
female	1.182426	.4000735	2.96	0.003	.3979342	1.966918
ed5cat	3.349871	.6670955	5.02	0.000	2.041784	4.657958
faminc6	-.9830517	.6303781	-1.56	0.119	-2.219141	.2530373
pid3cat	.5070013	1.11202	0.46	0.648	-1.673524	2.687526
_cons	15.71126	.8898381	17.66	0.000	13.9664	17.45612

```

201
202
203 *****UNPACKING SES CONDITION*****
204 *****Footnote 25*****
205 //in each condition, top words
206 //what words are uniquely predictive of one condition versus the others
207 preserve

208 keep comment_lower expcond

209 save openends.dta, replace
    (file openends.dta not found)
    file openends.dta saved

210 restore

211
212 * txttool is the command, commenttext is the variable to be used, gen(cleaned) creat
    > es a new variable with all lower case text
213 * bagwords breaks out every word into its own variable
214
215 use openends.dta, clear

216 preserve

217 keep if expcond ==1
    (1,786 observations deleted)

218 save openends_Genetic.dta, replace
    (file openends_Genetic.dta not found)
    file openends_Genetic.dta saved

219 restore

220 preserve

221 keep if expcond ==2
    (1,771 observations deleted)

222 save openends_Neutral.dta, replace
    (file openends_Neutral.dta not found)
    file openends_Neutral.dta saved

223 restore

224 preserve

225 keep if expcond ==3
    (1,773 observations deleted)

226 save openends_SES.dta, replace
    (file openends_SES.dta not found)
    file openends_SES.dta saved

227 restore

228
229 foreach v in Genetic Neutral SES {
    2. use openends_`v'.dta, clear
    3. txttool comment_lower, gen(cleaned_open) bagwords stem stopwords(stopword.txt)
    4. save "cleaned_open_`v'", replace
    5. }
No prefix chosen for bagged words; default prefix w_used
Note that errors will result if new prefix/word combinations match any existing variab
> les
Input: 1194 unique words, 13852 total words
Output: 793 unique words, 6891 total words
Total time: 1.805 seconds
    (file cleaned_open_Genetic.dta not found)
    file cleaned_open_Genetic.dta saved
No prefix chosen for bagged words; default prefix w_used
Note that errors will result if new prefix/word combinations match any existing variab

```

```
> les
Input: 893 unique words, 12088 total words
Output: 563 unique words, 6172 total words
Total time: 1.361 seconds
(file cleaned_open_Neutral.dta not found)
file cleaned_open_Neutral.dta saved
No prefix chosen for bagged words; default prefix w_ used
Note that errors will result if new prefix/word combinations match any existing variab
> les
Input: 1259 unique words, 14890 total words
Output: 811 unique words, 7610 total words
Total time: 2.303 seconds
(file cleaned_open_SES.dta not found)
file cleaned_open_SES.dta saved
```

```
230
231 //looking at the new dataset of bag of words
232 foreach v in Genetic Neutral SES {
233   2. use cleaned_open`v', clear
234   3. foreach j of varlist w * {
235     4. egen mean`j' = mean(`j')
236     5. }
237   6. keep mean*
238   7.
239   8. }
240 save "means_open_`v'", replace
241 (file means_open_Genetic.dta not found)
242 file means_open_Genetic.dta saved
243 (file means_open_Neutral.dta not found)
244 file means_open_Neutral.dta saved
245 (file means_open_SES.dta not found)
246 file means_open_SES.dta saved
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		v1			
		Percentiles			
				Smallest	
1%	.0011429			.0011429	
5%	.0011429			.0011429	
10%	.0011429			.0011429	
25%	.0011429			.0011429	
				Obs	788
				Sum of wgt.	788
50%	.0011429			Mean	.0099666
				Std. dev.	.0539364
75%	.0034286			Largest	
90%	.0137143			.5714286	
95%	.0228571			.5942857	
99%	.2045714			Variance	.0029091
				Skewness	11.17718
				Kurtosis	142.0885

243 egen top50=pctile(v1), p(50)

244 egen top25=pctile(v1), p(75)

245 keep if v1>top25
(616 observations deleted)

246 sum

Variable	Obs	Mean	Std. dev.	Min	Max
v1	172	.0402924	.1104706	.0045714	.8651429
_varname	0				
top50	172	.0011429	0	.0011429	.0011429
top25	172	.0034286	0	.0034286	.0034286

247 sum v1, det

		v1	
Percentiles	Smallest		
1%	.0045714	.0045714	
5%	.0045714	.0045714	
10%	.0045714	.0045714	Obs 172
25%	.0068571	.0045714	Sum of wgt. 172
50%	.0125714		Mean .0402924
		Largest	Std. dev. .1104706
75%	.0205714	.5714286	
90%	.0502857	.5942857	Variance .0122038
95%	.184	.6	Skewness 5.155612
99%	.6	.8651429	Kurtosis 31.19177

248 graph hbar v1 if v1>.02, over(_varname, sort(1) label(labsize(vsmall))) title("Top W > ords" "Genetic Condition") ytitle(" ") name(Genetic, replace)

249

250 use "means_open_Neutral", clear

251 drop if _n>1
(893 observations deleted)

252 order _all, sequential

253 drop meanw_99-meanw_400

254 rename meanw_* *

255 xpose, clear varname format(%6.2f)

256 sum v1, det

		v1	
Percentiles	Smallest		
1%	.0011223	.0011223	
5%	.0011223	.0011223	
10%	.0011223	.0011223	Obs 561
25%	.0011223	.0011223	Sum of wgt. 561
50%	.0011223		Mean .0123177
		Largest	Std. dev. .066568
75%	.003367	.6083053	
90%	.0123457	.6251403	Variance .0044313
95%	.026936	.7598204	Skewness 9.661116
99%	.3580247	.8619528	Kurtosis 103.91

257 egen top50=pctile(v1), p(50)

258 egen top25=pctile(v1), p(75)

259 keep if v1>top25
(422 observations deleted)

260 sum

Variable	Obs	Mean	Std. dev.	Min	Max
v1	139	.0450306	.1286372	.0044893	.8619528
_varname	0				
top50	139	.0011223	0	.0011223	.0011223
top25	139	.003367	0	.003367	.003367

261 sum v1, det

		v1	
Percentiles	Smallest		
1%	.0044893	.0044893	
5%	.0044893	.0044893	
10%	.0044893	.0044893	Obs 139
25%	.0056117	.0044893	Sum of wgt. 139
50%	.0089787		Mean .0450306
		Largest	Std. dev. .1286372
75%	.0224467	.6083053	
90%	.0650954	.6251403	Variance .0165475
95%	.2289562	.7598204	Skewness 4.667233
99%	.7598204	.8619528	Kurtosis 25.24346

262 graph hbar v1 if v1>.02, over(_varname, sort(1) label(labsize(vsmall))) title("Top W
> ords" "Neutral Condition") ytitle(" ") name(Neutral, replace)

263

264 use "means_open_SES", clear

265 drop if _n>1
(891 observations deleted)

266 order _all, sequential

267 drop meanw_9-meanw_99

268 rename meanw_long renamew_llong

269 rename meanw_* *

270 xpose, clear varname format(%6.2f)

271 sum v1, det

		v1	
Percentiles	Smallest		
1%	.0011274	.0011274	
5%	.0011274	.0011274	
10%	.0011274	.0011274	Obs 809
25%	.0011274	.0011274	Sum of wgt. 809
50%	.0011274		Mean .0105814
		Largest	Std. dev. .0543389
75%	.0045096	.5772266	
90%	.0135287	.6020293	Variance .0029527
95%	.0259301	.6110485	Skewness 11.34533
99%	.1668546	.9188275	Kurtosis 151.9435

272 egen top50=pctile(v1), p(50)

273 egen top25=pctile(v1), p(75)

274 keep if v1>top25
(638 observations deleted)

275 sum

Variable	Obs	Mean	Std. dev.	Min	Max
v1	171	.0438168	.1123462	.005637	.9188275
_varname	0				
top50	171	.0011274	0	.0011274	.0011274
top25	171	.0045096	0	.0045096	.0045096

276 sum v1, det

		v1			
Percentiles		Smallest			
1%	.005637	.005637			
5%	.005637	.005637			
10%	.005637	.005637		Obs	171
25%	.0078918	.005637		Sum of wgt.	171
50%	.0124014			Mean	.0438168
		Largest		Std. dev.	.1123462
75%	.0248027	.5772266			
90%	.0777903	.6020293		Variance	.0126217
95%	.1668546	.6110485		Skewness	5.201364
99%	.6110485	.9188275		Kurtosis	32.99769

277 graph hbar v1 if v1>.02, over(_varname, sort(1) label(labsize(vsmall))) title("Top W
> ords" "SES Condition") ytitle(" ") name(SES, replace)

278

279 graph combine Genetic Neutral SES, ycommon col(3) imargin(tiny)

280

281 //next, identify distinctive words

282 //pr(mention a given word|condition)

283 //what are the words where "condition" is most significant?

284 //DV: prevalence of the word

285 //IV: condition (dataset)

286 //stack dataset so that each line represents a different condition

287

288 use "means_open_Genetic", clear

289 drop if _n>1

(878 observations deleted)

290 order _all, sequential

291 drop meanw_2-meanw_1968

292 rename meanw_long renamew_llong

293 rename meanw_* *

```
294 xpose, clear varname format(%6.2f)
295 keep if v1>.02
      (744 observations deleted)
296 rename v1 Genetic
297 rename _varname word
298 save "top_words_Genetic", replace
      (file top_words_Genetic.dta not found)
      file top_words_Genetic.dta saved
299
300 use "means_open_Neutral", clear
301 drop if _n>1
      (893 observations deleted)
302 order _all, sequential
303 drop meanw_99-meanw_400
304 rename meanw_* *
305 xpose, clear varname format(%6.2f)
306 keep if v1>.02
      (519 observations deleted)
307 rename v1 Neutral
308 rename _varname word
309 save "top_words_Neutral", replace
      (file top_words_Neutral.dta not found)
      file top_words_Neutral.dta saved
310
311 use "means_open_SES", clear
312 drop if _n>1
      (891 observations deleted)
313 order _all, sequential
314 drop meanw_9-meanw_99
315 rename meanw_long renamew_llong
316 rename meanw_* *
317 xpose, clear varname format(%6.2f)
318 keep if v1>.02
      (750 observations deleted)
319 rename v1 SES
320 rename _varname word
```

```
321 save "top_words_SES", replace
      (file top_words_SES.dta not found)
      file top_words_SES.dta saved
```

```
322
```

```
323 use top_words_Genetic, clear
```

```
324 merge 1:1 word using top_words_Neutral
```

Result	Number of obs	
Not matched	28	
from master	15	(_merge==1)
from using	13	(_merge==2)
Matched	29 (_merge==3)	

```
325 merge 1:1 word using top_words_SES, gen(_merge2)
```

Result	Number of obs	
Not matched	38	
from master	18	(_merge2==1)
from using	20	(_merge2==2)
Matched	39 (_merge2==3)	

```
326
```

```
327 gen Gen_Only = .
      (77 missing values generated)
```

```
328 replace Gen_Only =1 if Genetic>0 & Genetic<1 & Neutral==. & SES==.
      (7 real changes made)
```

```
329 gen Neutral_Only =.
      (77 missing values generated)
```

```
330 replace Neutral_Only =1 if Neutral>0 & Neutral<1 & Genetic==. & SES==.
      (9 real changes made)
```

```
331 gen SES_Only =.
      (77 missing values generated)
```

```
332 replace SES_Only =1 if SES>0 & SES<1 & Genetic==. & Neutral==.
      (20 real changes made)
```

```
333 egen numberconditions = rownonmiss(Genetic Neutral SES)
```

```
334
```

```
335 //words that are unique to each condition
```

```
336 tab word if Gen_Only==1
```

word	Freq.	Percent	Cum.
base	1	14.29	14.29
common	1	14.29	28.57
counsel	1	14.29	42.86
famili	1	14.29	57.14
gene	1	14.29	71.43
preval	1	14.29	85.71
test	1	14.29	100.00
Total	7	100.00	

337 tab word if Neutral_Only==1

word	Freq.	Percent	Cum.
debat	1	11.11	11.11
expert	1	11.11	22.22
know	1	11.11	33.33
profession	1	11.11	44.44
puzzl	1	11.11	55.56
racial	1	11.11	66.67
read	1	11.11	77.78
scientist	1	11.11	88.89
sure	1	11.11	100.00
Total	9	100.00	

338 tab word if SES_Only==1

word	Freq.	Percent	Cum.
account	1	5.00	5.00
come	1	5.00	10.00
condit	1	5.00	15.00
disadvantag	1	5.00	20.00
econom	1	5.00	25.00
experi	1	5.00	30.00
face	1	5.00	35.00
ill	1	5.00	40.00
individu	1	5.00	45.00
patient	1	5.00	50.00
person	1	5.00	55.00
relat	1	5.00	60.00
situat	1	5.00	65.00
social	1	5.00	70.00
socioeconom	1	5.00	75.00
statu	1	5.00	80.00
tend	1	5.00	85.00
think	1	5.00	90.00
treat	1	5.00	95.00
trigger	1	5.00	100.00
Total	20	100.00	

339

```

340 *****cleaning up directory*****
341 foreach v in SES Genetic Neutral {
2.     erase openends_`v'.dta
3.     erase cleaned_open_`v'.dta
4.     erase means_open_`v'.dta
5.     erase top_words_`v'.dta
6. }
    
```

342 erase openends.dta

343

```

344 log close
    name: <unnamed>
    log: C:\Users\kamcd\Dropbox\CDK WORK\racial disparities essentialism\JOP repli
> cation files\Anoll Kam Marcellin Bovitz Analyses.smcl
    log type: smcl
    closed on: 10 Jan 2025, 13:40:08
    
```
